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From: Kelvin M. Vivian

Re: USSN 09/757,427
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Attached is a copy of the claims including proposed amendments. The limitations of claims 4-5 have been incorporated into claim 1, the limitations of claims 9-10 have been incorporated into claim 6, and the limitations of claims 14-15 have been incorporated into claim 11. In addition, in the independent claims, "the return" in the independent claims have been amended to recite "a result", and a definition has been provided for a stabilized data page as found, for example, in the specification at page 1, line 23 - page 2, line 3. Feel free to give me a call at (650) 475-1448 should you have any questions. - Kelvin

If you have any questions or need further information, please contact us.

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Proposed Amendment 09/757,427 (1852P)

1. (Currently Amended) A method for processing a database query on a set of data stored on a plurality of data pages in a database management system, the method comprising the steps of:
 - a) utilizing a query processor to call a data manager and request the ~~return~~ a result of data from the set of data;
 - b) allowing the data manager to locate and access query-specified data on a stabilized data page and make a determination regarding the query-specified data, the data page being stabilized to prevent concurrent updates to the data page to preserve a logical integrity of contents of the data page while the data manager is accessing the data page;
 - c) utilizing the data manager to write all the query-specified data on the stabilized data page to a buffer based on the determination while maintaining the stabilization of the data page; and
 - d) utilizing the query processor to retrieve the query-specified data from the buffer.
2. (Original) The method of claim 1 wherein the determination involves determining whether the query-specified data is to be ignored, consumed, or returned to the query processor.

3. (Original) The method of claim 2 wherein the determination is that the query-specified data is to be returned to the query processor.
4. (Cancelled) The method of claim 3 wherein the set of data is stored on a plurality of pages and step b) further comprises:
 - b1) locating a page containing query-specified data;
 - b2) stabilizing the page; and
 - b3) accessing the page.
5. (Cancelled) The method of claim 4 wherein step c) further comprises:
 - c1) maintaining the stabilization of the page, while the data manager writes all the query-specified data on the page to the buffer.
6. (Currently Amended) A system for processing a database query on a set of data stored on a plurality of data pages in a database management system, the system comprising:
 - a data manager;
 - a query processor comprising means to call the data manager and request the ~~return~~ a result of data from the set of data;
 - means for allowing the data manager to locate and access query-specified data on a stabilized data page and make a determination regarding the query-specified data, the data page being stabilized to prevent concurrent updates to the data page to preserve a

logical integrity of contents of the data page while the data manager is accessing the data page;

means for utilizing the data manager to write all the query-specified data on the stabilized data page to a buffer based on the determination while maintaining the stabilization of the data page; and

means for utilizing the query processor to retrieve the query-specified data from the buffer.

7. (Original) The system of claim 6 wherein the determination involves determining whether the query-specified data is to be ignored, consumed, or returned to the query processor.

8. (Original) The system of claim 7 wherein the determination is that the query-specified data is to be returned to the query processor.

9. (Cancelled) The system of claim 8 wherein the set of data is stored on a plurality of pages and the means for allowing the data manager to locate query-specified data further comprises:

means for locating a page containing query-specified data;

means for stabilizing the page; and

means for accessing the page.

10. (Cancelled) The system of claim 9 wherein the means for utilizing the data manager to write the query-specified data to a buffer further comprises:

means for maintaining the stabilization of the page, while the data manager writes all the query-specified data on the page to the buffer.

11. (Currently Amended) A computer readable medium containing program instructions for processing a database query on a set of data stored on a plurality of data pages in a database management system, the program instructions comprising the steps of:

a) utilizing a query processor to call a data manager and request the return a result of data from the set of data;

b) allowing the data manager to locate and access query-specified data on a stabilized data page and make a determination regarding the query-specified data, the data page being stabilized to prevent concurrent updates to the data page to preserve a logical integrity of contents of the data page while the data manager is accessing the data page;

c) utilizing the data manager to write all the query-specified data on the stabilized data page to a buffer based on the determination while maintaining the stabilization of the data page; and

d) utilizing the query processor to retrieve the query-specified data from the buffer.

12. (Original) The computer readable medium of claim 11 wherein the determination involves determining whether the query-specified data is to be ignored, consumed, or returned to the query processor.

13. (Original) The computer readable medium of claim 12 wherein the determination is that the query-specified data is to be returned to the query processor.

14. (Cancelled) The computer readable medium of claim 13 wherein the set of data is stored on a plurality of pages and step b) further comprises:

- b1) locating a page containing query-specified data;
- b2) stabilizing the page; and
- b3) accessing the page.

15. (Cancelled) The computer readable medium of claim 14 wherein step c) further comprises:

- c1) maintaining the stabilization of the page, while the data manager writes all the query-specified data on the page to the buffer.

16. (Currently Amended) A method for processing a database query on a set of data stored on a plurality of data pages in a database management system, the method comprising the steps of:

- a) utilizing a query processor to call a data manager and request the return a result of data from the set of data;

- b) allowing the data manager to locate query-specified data by:
 - b1) locating a data page containing query-specified data;
 - b2) stabilizing the data page; and
 - b3) accessing the data page, wherein the data page is stabilized to prevent concurrent updates to the data page to preserve a logical integrity of contents of the data page while the data manager is accessing the data page;
- c) utilizing the data manager to make a determination regarding the query-specified data and to write the query-specified data on the stabilized data page to a buffer based on the determination while maintaining the stabilization of the data page; and
- d) utilizing the query processor to retrieve the query-specified data from the buffer.

17. (Currently Amended) A system for processing a database query on a set of data stored on a plurality of data pages in a database management system, the system comprising:

- a data manager;
- a query processor comprising means to call the data manager and request the ~~return~~ a result of data from the set of data;
- means for allowing the data manager to locate query-specified data comprising,
 - means for locating a data page containing query-specified data,
 - means for stabilizing the data page, and

means for accessing the data page, wherein the data page is stabilized to prevent concurrent updates to the data page to preserve a logical integrity of contents of the data page while the data page is being accessed;

means for utilizing the data manager to make a determination regarding the query-specified data and to write the query-specified data on the stabilized data page to a buffer based on the determination while maintaining the stabilization of the data page; and

means for utilizing the query processor to retrieve the query-specified data from the buffer.

18. (Currently Amended) A computer readable medium containing program instructions for processing a database query on a set of data stored on a plurality of data pages in a database management system, the program instructions comprising the steps of:

- a) utilizing a query processor to call a data manager and request the ~~return a~~ result of data from the set of data;
- b) allowing the data manager to locate query-specified data by:
 - b1) locating a data page containing query-specified data;
 - b2) stabilizing the data page; and
 - b3) accessing the data page, wherein the data page is stabilized to prevent concurrent updates to the data page to preserve a logical integrity of contents of the data page while the data manager is accessing the data page;

- c) utilizing the data manager to make a determination regarding the query-specified data and to write the query-specified data on the stabilized data page to a buffer based on the determination while maintaining the stabilization of the data page; and
- d) utilizing the query processor to retrieve the query-specified data from the buffer.